

Adequate fluid intake

Before prescribing, please consult complete product information, a summary of which follows:

Indications: Acute, recurrent or chronic nonob-structed urinary tract infections (primarily pyelonephritis,

Note: Carefully coordinate in vitro sulfonamide sensitivity tests with bacteriologic and clinical response; add aminobenzoic acid to follow-up culture media. The increasing frequency of resistant organisms limits.

antibacterials including suifonamides, especially in chronic or recurrent urinary tract infections. Measure

sulfonamide blood levels as variations may occur; 20 mg/

100 mi should be maximum total level.

Contrainde attorns: Sulfonamide hypersensitivity,
pregnancy at term and during nursing period; infants less

than two months of age.

Warnings: Safety during pregnancy has not been established. Sulfonemides should not be used for group A beta-hemolytic streptococcal infections and will not be used for group A beta-hemolytic streptococcal infections and will not

eradicate or prevent sequelae (rheumatic fever, glomeru-lonephritis) of such infections. Deaths from hypersensi-tivity reactions, agranulocytosis, aplastic anemia and other blood dyscrasias have been reported and early clinical

illis and cystitis) due to susceptible organisms.

Frequent voiding

Gantanol (sulfamethoxazole)

4 tablets (0.5 Gm each) STAT—then 2 tablets B.I.D. for 10-14 days

Basic therapy with convenience for acute nonobstructed cystitis

 Effective against susceptible E. coli, Klebsiella-Aerobacter, Staph. aureus, Proteus mirabilis, and, less frequently, Proteus vulgaris

signs (sore throat, fever, pallor, purpura or jaundice) may indicate serious blood disorders. Frequent CBC and urinalysis with microscopic examination are recommended

during sulfonamide therapy. Insufficient data on children under six with chronic renal disease. Precautions: Use cautiously in patients with impaired renal or hepatic function, severe allergy, bronchial in glucose-6-phosphate dehydrogenase-deficient indi-viduals in whom dose-related hemolysis may occur. Main-tain adequate fluid intake to prevent crystaliuria and

Advarse Reactions: Blood dyscrasias (agranulocy-Adverse Reactions: Blood dyscrasias (agranulocytosis, aplastic anemia, thrombocytopenia, leukopenia, hemolytic anemia, purpura, hypoprothrombinemia and methemoglobinemia); allergic reactions (erythema multiforme, skin eruptions, epidermal necrolysis, urticaris, serum sickness, pruritus, exfoliative dermatitis, anaphylacioid reactions, periorbital edema, conjunctival and scieral injection, photosensitization, arthraigia and allergic myocarditis); gastrointestinal reactions (nausea, emesis, abdominal pains, hepatitis, diarrhea, anorexia, pancreatitis and stomatitis); CNS reactions (headache, peripheral neuritis, mental depression, convulsions, ataxia, halluci-

nations, tinnitus, vertigo and insomnia); miscellaneous reactions (drug fever, chills, toxic nephrosis with oliguris and anuria, periarteritis nodosa and L.E. phenomenon). Due to certain chemical similarities with some goltrogens, diuretics (acetazolamide, thiazides) and oral hypoglycemic agents, suifonamides have caused rare instances of golter production, diuretic and hypoglycemia as well as goiter production, divresis and hypoglycemia as well thyroid malignancies in rats following long-term admin stration. Cross-sensitivity with these agents may exist Dosage: Systemic suifonamides are contrain in Infants under 2 months of age (except adjunctively with

pyrimethamine in congenital toxoplasmosis).

Usual adult dosage: 2 Gm (4 tabs or teasp.) initially.

then 1 Gm b.l.d. or t.l.d. depending on severily of infection.

Usual child's dosage: 0.5 Gm (1 tab or teasp.)/20 ibs

Usual child's dosage: 0.5 Gm (20 ibs b.l.d. Maximum dosa should not exceed 75 mg/kg/24 hrs.

mum dose should not exceed 75 mg/kg/24 hrs. Supplied: Tablets, 0.5 Gm suifamethoxazole; Supension, 0.5 Gm suifamethoxazole/teaspoonful.



Roche Laboratories
Division of Holimann-La Roche Inc.

Medical Tribune

world news of medicine and its practice—fast, accurate, complete

Merry Christmas

Care to the second and the second an

Sputum Cytology: An Aid to

Early Detection of Lung Ca

and Medical News -

Wednesday, December 24, 1975

From Heart Institute:

SIDS Linked to Familial Defect In OT Interval

ANAHEIM, CALIF.-A significant number of sudden and unexpected infant deaths may be linked to a familial cardiac mechanism characterized by a prolonged QT interval, a National Heart and Lung Institute team reported here.

Detailing the findings in a study that sought to shed light on the baffling problem of the sudden infant death syndrome (SIDS), the team told the American Heart Association that a "considerable proportion" of the first degree relatives of such infants have a prolonged QT interval on ECG exami-

'Of 42 pairs of parents who were studied, prolongation of the interval was present in at least one parent in 11 pairs, or 26%. In addition, the prolonged QT interval was identified "in as many as 40% of the siblings" in these 11 families, suggesting an autosomal dominant pattern of inheritance, according to Dr. Barry J. Maron, of the Cardiology Branch, NHLI.

treatment of the disease according to Underscoring the role of the QT abnormality in SIDS, Dr. Maron defessor of Medicine at the Mayo Medical scribed the first known documentation School in Rochester, Minn. of potential sudden death in an infant. The case was that of a "near-miss" Continued on page 3

part of an NCI-sponsored early lung cancer screening program involving men who are more than 45 years old cigarettes a day, Dr. Sanderson told the

41st Annual Scientific Assembly of the American College of Chest Physicians. Each man who enters the program gives a complete health history, receives chest X-rays and submits sputum samples at four month intervals.

If the chest X-rays are negative, but Dr. David R. Sanderson, Associate Pro- the sputum cytology test indicates lung cancer cells, the search for the hidden tumor includes a detailed broncho-The patients involved in his study scopic evaluation of the patient under had entered the Mayo Lung Project, general anesthesia with collection of multiple samples from all parts of the bronchial tree for cytologic and histologic studies, Dr. Sanderson said. The and who smoke at least one pack of search also includes a detailed study of Continued on page 21

Dr. Scribner Urges

Greater Use Of Dialysis At Home

New York—Stronger support from physicians for the use of home dialysis by suitable patients was urged here by Dr. Belding H. Scribner, developer of the arteriovenous shunt that bears his name and head of the Division of Nephrology at the University of Washington School of Medicine.

Dr. Scribner said that the proportion of patients with end-stage renal disease who are on home dialysis has declined over the past six years to the point where they now make up only 20% nationwide of all dialysis patients.

The drop began with the payment of dialysis costs under Medicare and the subsequent founding and expansion of large commercial dialysis centers, Dr. Scribner said at the annual meeting of the National Kidney Foundation, where he received the David M. Hume Memorial Award for his contributions to hemodialysis research.

Tracing specific causes, the Scattle specialist cited "lack of commitment and understanding on the part of physicians and staff" as the major reason for what he called the failure of home dialysis programs.

"If you are not fully committed to home dialysis, it's a lot harder to sell the patient on this form of care than to let him stay in centers and develop a Continued on page 17



lishing of names and address es of 215 doctors who made \$100,000 or more in 1974 for treating low-income patients carries "no implication of wrongdoing," an HEW spokes-man told MT. "We have no way of knowing how large a doctor's overhead cost was," he added. However, HEW Wants states to examine validity of claims. There has been no official response from the medical community 80 far, "but I'm sure there was some reaction. The publishing of the list resulted from a 'Freedom of Information' request from CBS," the spokesman, said. "Under federal law, we are required to supply this information under most circumstances."

MEDICAID EARNINGS - The publishing of names and address. Amputation Avoided in Osteogenic Sarcoma

By NATHAN HORWITZ Medical Tribune Staff

Anatteim, Calif.—In patients in whom

chest X-rays have failed to detect lung

cancer, sputum cytology is becoming

increasingly effective in the early detec-

tion and subsequent localization and

New York-A new femoral prosthesis that makes it possible to avoid total leg amputation in selected patients with ostcogenic sarcoma has been developed by a surgical team at Memorial Hospital-Sloan-Kettering Institute.

The vitallium device has been implanted in 18 pre-teen and teen-age patients and is functioning well in 14 at up to two years follow-up, according to Dr. Raiph C. Marcove, Acting Chief of the Bone Service at Memorial.

The patients can walk and move about easily with the aid of a cane, and some youngsters are able to walk up to four miles daily, Dr. Marcove told # symposium on "New Concepts in Treatment of Cancer" at Jewish Hospital and. Medical Center of Brooklyn.

In conventional therapy, amputation. is performed when an osteogenic 187 come occurs at the head of the femur

or along its length. However, recent advances in the chemotherapy of these tumors, Dr. Marcove noted, have significantly increased the survival rate of patients, creating the need to devise methods of limb salvage where possible.

Primary Indication

In Dr. Marcove's procedure, the localization of the sarcoma away from the neurovascular bundle of the leg. If the bundle can be completely freed by block resection through a margin of bealthy tissue, the operation is performed, the surgeon said. The procedure entails en bloc removal of the knee joint and the entire femur, including the femoral part of the hip joint. Implantation of the prosthesis follows.

The patients continue receiving high dose combined therapy, in varying schedules, postoperatively. The drugs Continued on page 3



Vifallium femoral prostnesis is implanted in deteogenic sarcoma patient after removal of knee joint and femur, including femoral part of the hip joint.





Symmetrel **

(amantadine HCI)

A CHEMICALLY DISTINCT, EFFECTIVE ANTIPARKINSON AGENT

- SYMMETREL® (amantadine HCl) provides prompt symptomatic relief, with an acceptable incidence of side effects. Benefits in responsive patients are generally apparent within 48 hours to 1 week.
- SYMMETREL® with levodopa or anticholinergics, may provide additional symptomatic improvement, when optimal doses of levodopa or anticholinergics have been reached.

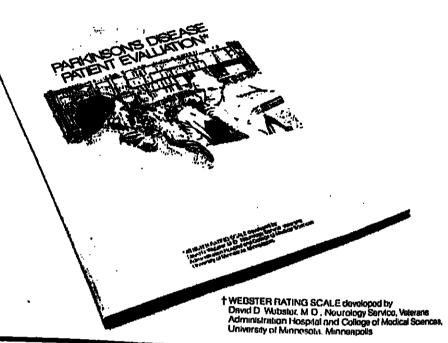
"Indicated for Idiopathic Parkinson's disease (paralysis agitans), postencephalitic parkin-sonism, symptomatic parkinsonism which may follow injury to the nervous system by carbon monoxide infoxication and parkinsonism which develops in association with a parkinsonism which develops in association with a parkinsonism which develops in association with a parkinsonism.

SYMMETREL^a is a U.S. registered trademark of E.I. du Pont de Nemours & Co. (inc.); U.S. Rat. 3,310,469.

2 EVALUATE THERAPY WITH

The Webster Rating Scale

• Lets you assess 10 major areas of involvement provides an overall index of disability of the patient with





Amantariae hydrochlovide is a stable, white crystalline substance reality soluble in water. It is readily absorbed, is not metabolized, and is excreted unchanged in the urine.

ACTIONS The mechanism of scilon of SYAMETREL® in the treat-ment of Parkinson's disease is not known. It has been shown to cause an increase in dopamine release in the enimal brain. The drug does not possess ambicotinergio activity in animal tests at doses similar to those used cancely.

Status to noise used canicary.

The artiviral activity of SYMMETRIEL® for the prophylicide of A₂ (Asian) industrial in humans appears not to be related to the mode of action of this drug in Parkinson's disease and syndrofes.

INDICATIONS Parkinson's Disease and Syndrome.

INDICATIONS Parkinson's Disease and Syndrome (Capsules):
SYMMETREL* (americation hydromhorids) is indicated in the traiment of idiopathic Parkinson's disease (Parkysis Agliaca), postoncephantic parkinsoniem, and symptomatic parkinsonism which
may follow lipiuy to the nervous system by carbon monocide intoleation. It is indicated in those addary parkins bettered to develop
parkinsonism in association with cerebral artis/localismosts.

SYMMETREL* is less effective than levodops (-)-3-(3,4-dihydrovyphany)-L-stainine. Its efficacy is comparison with the anticholiningic entipathinson drugs has not yet been established. There are
frautificient data on its efficacy and safety in drug-induced parkinsonium:

influenza A. (Alien) Respiratory Infactions (Capaties and Syrup): SYMMETREL* (amartadios hydrochloride) has been used in the prevention (prophylaxia) of respiratory infections caused by infuents A. (Alien) virus strains. SYMMETREL* might be considered especially for high influenza-rists palled groups or close contacts of index cases in whom respiratory liness is thought to be due to straceptible influenza A. (Asian) virus strains.

There is no clinical evidence that this drug has efficacy in the prophylaxis of any influenced or respiratory linears other than As (Asian) influence, nor in the treatment of patients with any established virus infection.

CONTRABBOCATIONS SYMMETREL® is contrabulcated in patients with known hyperamsthifty is the draw

uniquences Patients with a history of epilepsy or other "salzures" should be observed closely for possible increased selzure activity. Patients with a bistory of congestive heart fallers or geripheral selura should be followed closely as there are patients who developed congestive heart fallers while receiving SYMMETREL.

Patients with Paristricur's disease improving on SYMMETREL® (speatratine legitechnoide) should resume normal echistics gradually and casilously, consistent with other medical considerations, lasts us the presence of esteroperate or pheophrombusts. Patients produce SYMMETHELE wish note central nervous system infects or blunking of vision should be selected against driging of working in standard against driging of the standard where plentness is important.

Use the precise and y sylenter PREL® has not been studied in pre-nium receiver. They use of this chap in bornen of third-bearing age about the undertaken only sine; weighing the possible richs to the fining against benefit to the position. SYM METREE® hits been reported

to be exchyototic and teratogenic in rats at 50 mg/kg/day, about 12 times the recommended human dose, but not at 37 mg/kg/day. Embryototic and teratogenic effects were not seen to rabbits which received up to 25 times the usual recommended shall be then dose.

KURSING MOTHERS Since the drug is escreted in the milk,

PRECAUTIONS SYMMETREL® (amanbatine hydrochloride) should not be discontinued abrupity since a few patients with Parkinson's disease experienced a paridonomian crists, i.e., a sudden marked clinical deteriors if on, when this medication was auddenly stopped. The dose of antichological drugs or of SYMMETREL about be reduced it stopine-like silects appear when these drugs are used

The dose of SYMMETREL® may used careful adjustment in patients with rural impairment, congestive heart failure, peripheral edema, or orthostatic hypotension. Since SYMMETREL® is not metabolized and is major excreted in the urine, it may accumulate when renef function is Inadequate.

Care should be exercised when ad care amount be exercised when administrating SYMMETREL* (amendions hydrochloride) to paidant with Ever disease, a history of recurrent exametoid resh, or to patients with psychosta or severe psychoteurosis not concreted by chamotherapentic agents. Careful observation is required when SYMMETREL e is administered concurrently with central nervous switten administration.

ADVENCE PEACTIONS The most frequently occurring sarious ed-verse reactions are; depression, congestive heart takers, orthostatio hypoteosive episodes, psychosis, and urinary retendon. Rarely con-tuitions, leukopenia, and neukropenia have been reported.

Ober adverse reactions of a less serious nature which have been observed are the following: hallucinations, confusion, andery, and straightly; secretos, nature, and constitution, andery, and straightly; secretos, natures, and constitution; aback and disziness (lighthrespectuses); livedo reticularis and peripheral science. Adverse reactions observed less traquently are the following: vomitting dry noutri; headache; dryepnes; latigue, insomnat, and a sense of weathers, firthrequestly, sain rash, sturred speech, and visual disturbances have been observed. Rarely eczematoki dermatikis and caucogyalo spisodes have been reported.

OVERDORAGE There is no apocitic artifote. For acute overdosing, general supportive measures should be employed along with immediate gastric levage or induction of eroses. Fluids should be forced, and if necessary, given introvenously. The phi of the union has been reported to infrarece she excretion rate of SYMMETREL®. Since the excitation type of SYRMETREL® increases rapidly when the units is added, the administration of urine aciditying hads may increase the added, the administration of urine aciditying hads may increase the elimination of the drug from the body. The blood pressure, puter, respiration and temperature should be monitored. The patient should be observed for hyperachity and convulsions; it required, exclution, and anticomvulsaget therapy should be administred. The patient should be observed for the possible development of armylamines and hypotensions; it required, appropriate antiarrhythmic and ambitypotensive therapy should be gived. The blood desclobytes, urine pit and unitary output should be monitored, if there is no created of recent during injection by the patient should be done. The possibility of multiple doubt and American should be considered.

Desage AND Advantage TRATION Occope for Parkinsonisms The pend does of SYMMETREL® (Amentacine hydrochinde) is 100 mg hinto d day when used alone. SYMMETREL® has an onset of action usually within 48 indure.

once delly, the dose may be increased to 100 mg fwice daily, if nec-

Children: 1 yr.-8 yrs. of age the total daily dose should be calculated on the bests of 2 mg to 4 mg per pound of body weight per day (but not to exceed 150 mg per day). The daily dose, given as the syrup, should be given in two or three agest por-

The Initial does no SYMMETHEL® is 100 mg daily for patients with service absorbed medical Briesses or juin are receiving high closes of other antitations of rule. After one to several weeks at 100 mg. An a

Occasionally, patients whose responses are not optimal with SYMMETRE et 200 mg daily may benefit from an increase up to 400 mg daily in divided doses. However, such patients should be

Patients initially deriving benefit from SYMMETREL® not uncommonly experience a fall-oit of effectiveness after a few months. Benefit may be regained by increasing the dose to 300 mg daity. Atternatively, temporary decontinuation of SYMMETREL® for several weeks, followed by reinitiation of the drug, may result in regaining banefit in some patients. A decision to use other analysistinson drugs may be necessary.

Concomited Tearsy Some patients who do not respond to anticho-largic antipartinson drugs may respond to SYMMETREL. When SYMMETREL® (ementation hydrochinde) or anticholoregic anti-partinson drugs are each used with marginal benefit, concomitant use may produce additional benefit.

When SYMMETREL® and levodops are initiated concurrently, the patient can exhibit repid therepautic benefits. SYMMETREL® should be held constant at 100 mg daily or twice daily while the daily dose of levodops is gradually increased to optimal benefit.

When SYMMETREL® is added to optimal wall-tolerated doses of levedops, additional benefit may result, including amouthing out the fluctuations in improvement which cometimes occur in patients on levedops alone. Patients who require a reduction in their usual dose of levedops because of development of aids effects may possibly regain lost benefit with the addition of SYMMETREL®.

Desage for Prophylasis of Influenza As (Asian) Respiratory Mineses: Admit The adult disty desage of BYMMETRIEL® (amentacine Inglocioloxide) is 200 mg into 100 mg capsules (or four tespeondus of Syrup) as a single delty does, or the daily desage may be spit influence capsule of 100 mg (or into tespeondus of syrup) twice a day. If central nervous system effects develop on once—day desage, a spit desage schedule may reduce such complaints.

Tyre-12 yes, of age The total daily dose is 200 mg given as one capsule of 100 mg (or two teaspoonfuls of syrup) twice a day. Treatment should be started in anticipation of contact or as soon as possible after contact with individuals suffering from As (Asian) influenza, respiratory lineas.

Erido laboradores inc.

pruphylaxis against A₂ (Auan) initioenta, SYMMETREL® (anta-ladine hydrochloide) should be continued daby for at leest 10 days following a known exposure, or up to 30 days in case of possible repeated and unknown exposures. Under circumstances of possible repeated, uncontrolled and unknown exposures to A₄ (Asian) influents. SYMMETREL® can be given daily coolinuously for up to

HOW SUPPLIED SYMMETREL® (amandadine hyd CAPSULES (Dortles of 100) -- each red, soft gelatin capsule contain SYRUP (1 pint)—each 5 ml (1 teaspoonful) of syrup contains 50 mg

Endo Laboratories, Inc. Subsidiary of E.I. du Pont de Ner Garden City, N.Y. 11630 EDO-3300

is arrhythmias in some infants with SDS," he declared. Five sets of parents of infants with diorganized cardiac muscle cells were

Wednesday, December 24, 1975

include vincristine, cytoxin, adriamycin

and methotrexate with citrovorum fac-

Of the 18 implants during the two-

vear trial, four have had to be removed:

the causes were two cases of infection,

one skin necrosis and one tumor recur-

Dr. Marcove reported that he and his

team perform the operation even after

metastatic spread of the tumor, pro-

vided the spread can be controlled for

a useful period of time. "We have per-

formed the procedure in two cases

where pulmonary metastases had oc-

curred, when we were satisfied that con-

Commenting on the trial in an inter-

view, he said: "The fact is that initially

we didn't think the prosthetic approach

was possible in this disease, but we have

found it is. Our first patient was a male who refused an amputation so that, per-

force, we found ourselves trying the

prosthesis. When we found that it

Dr. Michael Arlen, Physician-in-

Chief of Neoplastic Surgery at Brook-

SIDS in a seven-week-old girl who was

diorespiratory arrest. ECG studies in

tion of the QT interval", Dr. Maron

"There was no clinical evidence of

beart disease, and the patient was not

gven medications known to prolong

the interval," he said. Although the

child's parents had normal QT inter-

vals, a prolongation of the QT interval

was present in a 10-month-old nephew

In an extension of the overall studies.

Dr. Maron said, the team analyzed his-

slogic sections of myocardium from 45 slos infants and 26 control infants.

"Small foci of normal-sized, disorgan-

and cardiac muscle cells were present

in the ventricular septum of 22% of

infants with SIDS and 12% of control infants," he reported. "The foci of dis-

organized cells in SIDS resembled those

Although the significance of these ab-

normaly arranged cells is unknown,

they may serve as a nidus for ventricu-

asymmetric septal hypertrophy (ASH) but were less marked in severity.

Data Suggestive

of the patient.

worked, we continued the trials."

trol could be achieved," he reported.

Implant Avoids Amputation

In Osteogenic Sarcoma

the data were necessarily sugges- the Population Council.

SIDS Linked to Familial Heart Defect tive, not conclusive. Prolonged OT interval syndrome is a known inheritable resiscitated after suffering sudden car- condition that is associated with cardiac arrhythmias, syncopic spells and sud-

Photo of Dr. Marcove's prosthesis

shows femoral head, shaft, binged knee

joint and tibial stem. At right, 17-year-

lyn Jewish Hospital, called Dr. Mar- old patient two years postoperatively.

coye's approach "among the most inno- The girl is apparently free of disease valive operative procedures of the last and walks easily with aid of cane, Dedecade in the treatment of this disease." vice has been implanted in 18 patients.

this infant showed "marked prolonga- den death. What the NHL1 group has identified is a "relatively mild prolongation of the OT interval," Dr. Maron emphasized, adding that "the only definitive link to SIDS would be data obtained from SIDS infants during life." However, such infants are invariably considered healthy prior to their deaths. "In this regard, our finding of a marked prolongation of the Q'I interval is an infant with 'near miss' SIDS," Dr. Muron noted, "is confirmatory data of an association between SIDS and prolonged QT interval syndrome in some in-

ate in one of several ways: as a primary mechanism producing ventricular arrhythmia; or by creating a susceptibility. to ventricular arrhythmia that is triggered by some environmental factor, such as infection; or as a secondary manifestation of a primary CNS ab-

If the abnormality does play a role

in SIDS, Dr. Maron said, it may oper-

"Although our results are not definitive." Dr. Maron concluded, "they do suggest that cardiac mechanisms, in particular those related to prolonged OT interval syndrome, are causally re-Inted to a substantial number of sudden and unexplained infant deaths."

Coauthors were Drs. Chester E. Clark, Robert E. Goldstein, Russell S. Fisher and Stephen E. Epstein.

Improved Access to Legal Abortion **Drops N.Y.C. Pregnancy Rate**

abortion appears to be associated with age groups except teenagers, among improved and more widespread use of whom the drop was "minimal." contraception, according to an analysis of abortions, births and pregnancies among female residents of New York City since abortion was legalized here

An increase of 14% in the rate of while of here, again suggesting the poswas accompanied by a decrease of 7% Company at the Mid-American Breast was accompanied by a decrease of 7% and prolonged QT intervals were presin the rate of pregnancies, suggesting

Cancer Symposium here. The new highin a member of three of these five "more general and/or more effective speed Min-R film and screen combina-Mitalial sets." Dr. Maron related.

"more general and/or more enective special special to require approxidiscussing these findings, Dr. three-year period, reported Dr. Chris-mately 34 times less exposure than the mately 34 times less exposu hat the data with films previously employed by radiolo-

The decline in pregnancies, Dr. New York-Improved access to legal Tierze found, was substantial for all

Medical Tribine Report

Madison, Wis .- A new x-ray film and screen that significantly reduce patient exposure during mammography were gists for mammography.

CLINICAL NEWS NOTE: "When there's a choice, chronic illness is always better treated at home than in an institution. The more responsibility the patient hus for his welfare, the better the result. And the more informed the patient is about details of [home dialysis] treatment, and about complications and how to avoid them, the better the adjustment." (Dr. Belding H. Scribner, University of Washington School of Medicine, Seattle. See page 1.)

Medicine: 1

Lung cancer detection aided by sputum cytology Home dialysis advocated by Dr. Scrib-

Pediatrics: 1

Sudden infant death syndrome linked to

Implanted prosthesis avoids amputation in osteogenic sarcoma1

feature index

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One Man and Medicine 21

On Page 9

A special section for your patients, edited by Dr. Louis Lasagna, which will help you build effective doctor-patient relationships by explaining

THE GOOD DRUGS DO

Put these pages, specially designed to be removed from Medical Tribune, in your walting room.

Medical Tribune

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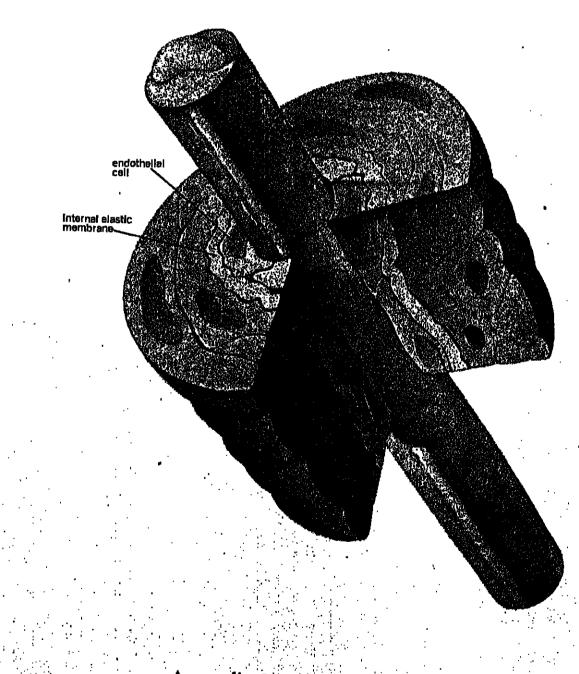
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Apresoline... (hydralazine) relaxes arterioles toolve the major hemodynamiproblem in hypertension

Abnormally high peripheral resistance is the major hemodynamic problem with most hypertensives.



Apresoline reduces peripheral resistance and lowers blood pressure through a direct relaxation of arteriolar smooth muscle.

common attribute of most hypertensives Because high peripheral resistance is the major hemodynamic disturbance found in most patients with essential hypertension,1,2 the therapeutic goal should be reduction of total peripheral resistance and a return to more nor-

high peripheral

resistance:

mal peripheral circulation.1,2 Hence, vasodilating drugs ...offer a physiologically rational approach to the therapy of hypertension." In addition, ...vasodilators [combined with a sympathetic inhibitor] are the most predictable and specific drugs for reversing the hemodynamic abnormality of most hypertensive patients.'

the only oral agent that deals directly with this problem

Apresoline (hydralazine), the only currently approved oral antihypertensive with vasodilating action, decreases peripheral resistance — regardless of its cause - and, hence, arterial pressure by relaxing arteriolar smooth muscle. Accompanying the fall in blood pressure is a rise in cardiac output and rate. Apresoline also maintains or increases renal and cerebral blood flow.

a different and complementary pharmacologic approach

Different in action from all other oral antihypertensives and compatible with most of them, Apresoline can play a significant role in a variety of thempeutic combinations.

Such combinations, according to Freis,4 with each component representing a different antihypertensive mecha-

nism, provide the most effective way to control blood pressure. This approach may also permit lower drug dosages.

the problem of postural hypotension minimized

Nickerson⁵ describes the action of Apresoline as follows:

"A preferential effect on arterioles, as compared to veins, allows the increase in cardiac output and minimizes postural hypotension; the latter is much less than that produced by agents blocking sympathetic nerves."

Apresoline hydrochloride

ADTESOLITE hydrochloride
(hydralazine hydrochloride)

TABLETS

INDICATIONS

INDICATIONS

Essential hydrochloride;
ONTRAINDICATIONS

Hydrochloride (hydralazine, sione of as an adjunct, hydrochloride)

WARNINGS

Hydrochloride (hydrochloride)

WARNINGS

Hydrochloride (hydrochloride)

WARNINGS

Hydrochloride (hydrochloride)

WARNINGS

Hydrochloride (hydrochloride)

Applification of the property of the degradation of the property of the patients of the property o Welfare of the patient.

PRECAUTIONS

Use cautiously in suspected coronary artery of other cardiovascular diseases, carebral vascular accidents, and advanced
renal damage. Postural hypotension may occur, and the preson
response to epinephrine may be reduced.

Peripheral neuritis; evidenced by parasthesias, numbress, and
lingling, has been observed. Published evidence suggests an
antipyridoxine effect and addition of pyridoxine to the regimen
if symptoms develop.

Blood dyscraelas, consisting of reduction in hemoglobin and
red cell count, leutopenia, agranulocytosis; and purpura, have
been reported farely. If such abnormalities develop, discontinue

therapy. Periodic blood counts are advised during prolonged therapy.

therapy. Periodic blood counts are advised during prolonged therapy.

ADVERSE REACTIONS

Common: Headache; palpitations; ancrexia; angina pectoris. Less trequenti Nassi congestion; illushing; acrimation; conjunctivitis; peripheral neuritis, evidenced by paresthesias, itemors; muscle cramps; psychotic reactions characterized by depression, disorientation, or anxiety; isver, chills, arthralgla, eosinophilis, and, rarely, nepatitis); constituiting influenced by common and tractions characterized by depression, disorientation, or anxiety; isver, chills, arthralgla, eosinophilis, and, rarely, nepatitis); constituiting influenced by depression, disorientation; or activities; every chills, arthralgla, eosinophilis, and, rarely, nepatitis); constituities; influenced by depression, disorientation; objects and the properties of the proper

agranulocytosis, and purpura; hypotension; paradoxical pressor response.

DOBAGE
DOBAGE
Initiate inerapy in gradually increasing dosages; increase to 29 mg 4 times delity for the first 2 to 4 depts, of first increase to 29 mg 4 times delity for the first 2 to 4 depts, of first increase to 29 mg 4 times delity for the first 2 to 4 depts, of first increase to 29 mg 4 times delity for the first 2 to 4 depts, of first increase to 29 mg 4 times delity for the first increase to 29 mg 4 times delity for the first increase to 29 mg 4 times delity for the first increase to 29 mg 4 times delity for the first increase to 29 mg 4 times delity for believed to a delity for the first increase to 29 mg 4 times delity for the first increase to 29 mg 4 times delity for the first increase to 29 mg 4 times delity for the first 2 to 4 depts, of first increase to 29 mg 4 times delity for the first 2 to 4 depts, of first increase to 29 mg 4 times delity for the first 2 to 4 depts, of first increase to 29 mg 4 times delity for the first 2 to 4 depts, of first increase to 29 mg 4 times delity for the first 2 to 4 depts, of first increase to 29 mg 4 times delity for the first 2 to 4 depts, of first 4 dept Tablets, 25 mg (deep blue, dry-coated) and 50 mg (lilec, dry-coated); bottles of 30, 60, 100, 500 and 1000. Tablets, 100 mg (peach, dry;coated); bottles of 100.



Apresoline (hydralazine)

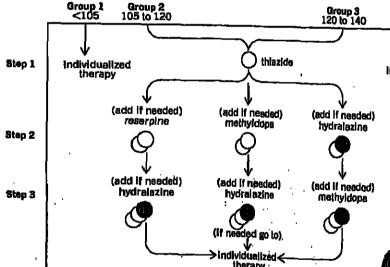
...key component in the "guideline" antihypertensive regimens

Thiazide diuretic

Apresoline... included in all four treatment plans by the AMA Committee

'in patients who cannot tolerate guanethidhe, alternatives 1 or 4 may be given a therapeutic trial, but treatme should be initiated with *both* the diuretic and methyldops or propranolol.

Recommendations by the Hypertension Task Ferce of the National High Blood Pressur Education Program



Apresoline... recommended second and third step therapy by the Hypertension Task Force'

used effectively in the landmark VA studies*,9

Apresoline was one of the three basic drugs used in two published VA cooperative studies - studies which demonstrated conclusively the benefits of antihypertensive treatment in reducing risk of morbidity and mortality.

Apresoline ... (hydralazine) An antihypertensive idea whose time has come

CLINICAL QUOTE: "These initial data identified... and treated... Early ready be among them. Because of the ready be among them. Because of the excellent medical facilities in Costa through sputtim cytology."

These initial data identified... and treated... Early received and through sputtim cytology.

The Only Independent Weekly Medical Newspaper in the U.S.

Medical Tribune

and Medical News

The Humanity of Our Courts

District Judge in Oklahoma City who which a patient deeply believes. There had previously ruled against the FDA, are certain situations in which judgordering FDA officials not to interfere with the importation from Mexico of Laetrile by a cancer patient. His latest order relieves hospital and physician of criminal liability if they administer the drug to the patient. We cannot suitably evaluate the legalities or the letter of the law; we can appreciate the humanity of the judgment.

There isn't the slightest doubt that the FDA's mandate enables it to deny a new drug application to a manufacturer to sell a medication in interstate commerce. The FDA may (we do not know) have proof that a preparation made from apricot pits has demonstrably harmful levels of hydrogen cyanide. Furthermore, the FDA is doubtless sound in maintaining that there is no well-controlled research demonstrating the anticarcinogenic cfficacy of this preparation. But the court's finding was that all available evidence showed that Laetrile was harmless and "was not necessarily void of effectiveness." It went on to say that this may be limited to the hope that the patient may derive some benefit

mind of pain, then it is effective." Considering the multifaceted character of malignancies, it would be rash to conclude that no single individual

from it "but if the drug relieves his

AGAIN, A COURT VERSUS the FDA. may benefit either from a biochemical or psychic mechanism of a drug in ment should be tempered by humanity. compassion, and tolerance, particularly for a patient who had been told that he had cancer of the rectum four years ago and has been taking a medication and is alive today and claims to be well as a result of it. Certainly for that individual the FDA's contention of "harmful effects of a drug" does not apply.

There is no question that reliance on questionable medications in treatable cases of malignancy defers the use of proper procedures and poses a threat to public health. Nonetheless, it would seem to us that an individual who wishes to continue to use a medication he believes in, even if the rest of the world does not, should have that personal right. No government agency prohibits people from exposing themselves to known, proven carcinogens. On the contrary, the U.S. government not only does not restrict the sale of such carcinogens as cigarettes but actually subsidizes the growth of tobacco.

The FDA acts within its province in refusing an NDA for Lactrile but, we believe, goes beyond the intent of the law and the bounds of good judgment when it harasses people who are seriously ill and believe their survival is dependent upon a medication of which A.M.S. the FDA disapproves.

order of one to 10 million, but a neo-

plasm one cm in diameter contains

time tumors are clinically detectable,

most have overcome immune defenses

and "it is unlikely that immunotherapy

alone will ever bolster host defenses

sufficiently to reverse tumor growth in

Most investigators agree that "the

practical future of immunotherapy ap-

pears to lie in its role as part of a com-

patients with advanced disease."

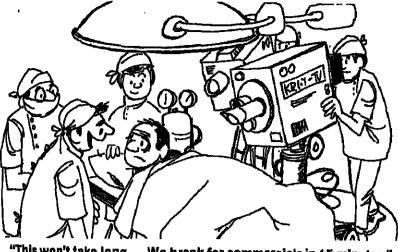
Tumor Immunotherapy

As of June, 1975, the International—is a complicating factor. But above all, A Registry of Tumor Immunotherapy Dr. Carter cites the observation that listed more than 200 protocol studies. Of these, as many as 74 are being rather than absolute." The normal host sponsored by our own National Cancer Institute. Dr. Stephen K. Carter of the NCI's Division of Cancer Treatment observed at the International Conference on Immunotherapy that the approach "is the newest, and one of the most exciting, of the therapeutic modalities in the armamentarium of clinical oncology." It is no wonder that investigalors are eagerly exploring its possibilities, but as Dr. Carter emphasized, we are a long way from its practical utilization and before that is possible there is a "tremendous amount of work that must still be accomplished."

The attractiveness of the concep that tumor cells bear distinctive antigens capable of "eliciting humoral and hind only small numbers of tumor cells cell-mediated responses whose possible But what the immunotherapeutic techmanipulation" may lead to tumor reiniques are to be and how they are to be lection, is undeniable. The avenues be- applied is still a long way off, so far as ing explored are multiple and that alone one can presently tell.

Sputum Cytology

through sputum cytology] persons with presymptomatic lung cancer can be life:" (Dr. D. Sanderson. See page 1.) excellent included in the guality of our move to Guanacaste Province, near our move to Guanacaste Province, near



LETTERS TO TRIBUNE

Hyperbaric Therapy

MEDICAL TRIBUNE (Oct. 22) contains a very well written story of our hyperbaric hydrogen therapy for treating cancer. One slight correction: my coauthors, Dr. William P. Fife and Dr. F. Ray Wilson were listed as both being from the Department of Biology, Baylor University. Actually, Dr. Fife is a biologist at Texas A & M University and was indeed Chairman of the Department of Biology there for a number of years. . . .

MALCOLM DOLE, Ph.D. Robert A. Welch Professor of Chemistry Baylor University

Meditating on Meditating

"Meditation without Metaphysics," (MT, Nov. 19) well summarizes the technique of transcendental meditation

The use of a mantra is an integral part of TM. It should be a meaningless word-otherwise it calls forth ideas which may disturb the orderly procedure. That is the reason why, I believe, the word "one" can serve only if it is "immunity against cancer is relative pronounced to rhyme with "bone." Otherwise, one tends to lapse into defenses can destroy what are relatively counting-one-two-etc. small numbers of tumor cells, of the

I have taken the standard course and believe that Dr. Herbert Benson has performed a service in making TM about one billion tumor cells. By the available without the trimmings. Incidentally, I have experimented with various mantra-and invariably found that words that have a meaning (like sing, ıan, sigh, etc.) do militate against TM practice. Even another meaningless word, like ha, would be undesirable: think of saying ha, ha as you breathe in and out-you may well begin to laugh. Then you may laugh meditation out of bined modality approach," that is, after

> ERWIN DI CYAN, Ph.D. New York, N.Y.

Costa Rica Anyone?

Much has recently been written about Costa Rica and the many American "Pensionados" (retirees) who have settled there. Had it not been for a bout with breast cancer, we would al-

Liberia City.

We will soon be building our home in Ranchos Maricosta, where we will have a few cattle for the freezer, horses for our two children, a garden, and fruit and nut trees. It is a long-awaited dream-and we can hardly wait!

Cost of living is still so low and taxes there so nearly nonexistent we can live comfortably on my husband's modest Navy retirement pay. We can hunt in the nearby mountains, fish in the Pacific and, if we ever tire of that, we can play golf and tennis, or just laze around in the sun (as we used to be able to do in now-many-times-more-expensive Hawaii).

If any readers would like more information about this beautiful, amazing little country and its Retirement Law,

> MRS. LEWIS M. BIRD 7000 South Dent Road Hixson, Tennessee 37343

One Man . . . and Medicine

Dr. Sackler's "One Man . . . and Medicine" remains the highlight of the MEDICAL TRIBUNE in our eyes.

> W. P. ORDELHEIDE, M.D. Loma Linda, Calif.

Gutenberg's Name

It is rare indeed to find an error-be it ever so miniscule-in Dr. Sackler's excellent articles. But sooner or later, it must—as to all of us—happen.

Johann's father's name was Gensfleisch, but the son chose his mother's maiden name Gutenberg. The spelling calls for just one T-no need to cross your T's twice.

Please continue and for many years. MELWYN BERLIND, M.D., Brooklyn, N.Y.

Don't Miss THE GOOD DRUGS DO

Edited by the famous clinical pharmacologist, Dr. Lasagna, designed to be removed from Medical Tribune for your waiting room, it begins on Page 9.

FOR YOUR PATIENTS



results of tests for mental status, ward results of tests for mental status, ward behavior (nurses' rating), target-symptom response, and physician's and nurses' global evaluations.... No side effect was observed or reported in any patient in the active drug group..." And in your own practice, similar results can be anticipated with Ritalin

(methylphenidate) therapy for patients showing apathetic or withdrawn senile

Kapiltz SE, Withdrawn, apathetic geriatric patients responsive to methylphenidate. *J Am Geriatr Soc* 23:271-276, 1975.

(methylphenidate)
To bring your elderly patient out of his apathetic/withdrawn senile behavior

Ritalin® hydrochloride @ (methylphenidate hydrochlori TABLETS

REPORT HAVE A STATE OF THE STAT

3 42894111

CONTRAINDICATIONS Markett inxivity, tension, and agitation, since Ritatin may aggravate those symptoms. Also contraindicated in patients known to be hyper sonsitive to the drug and in patients with glaucoma.

WARNINGS

WARNINGS
Ritalin should not be used in children under six years, since safety and efficacy in this age group have not been established.
Sufficient date on safety and efficacy of long-term use of Ritalin in children with minimal brain dysfunction are not yet available. Although a causal relationship has not been established, suppression of growth (ie, weight gain and/or height) has been reported with long-term used stimulants in children. Therefore, children requiring long-term therapy should be carefully

Ritalin should not be used for severe depression of either exogenous or endogenous origin or for the prevention of normal fatigue staies.

Ritalin may lower the convulsive threshold in patients with or without prior seizures; with or without prior seizures; with or without prior EEG abnormalities, even in absence of seizures. Safe concomitant use of anticonvulsants and Rilalin has not been established it seizures occur, Ritalin should be discontinued.

Use cautiously in patients with hypertension

Use cautiously in patients with hypertension. Blood pressure should be monitored at appro-priate intervals in all patients taking Ritalin, especially those with hypertension.

especially those with hypertension.

Drug Interactions
Ritalin may decrease the hypotensive effect of
guanethidine. Use cautiously with pressor agents
and MAO inhibitors. Ritalin may inhibit the
metabolism of coumarin anticosgulants, anticonvulsants (phenobarbital, diphenyihydantola,
primidone), phenyibutazone, and tricycik antidopressants (imipramine, desipramine). Downward dosage adjustments of these drugs may be
required when given concomitantly with Ritalia.

Usage in Presnancy

required when givon concomitantly with Ritalin.

Usage in Pregnancy
Adequate animal reproduction studies to establish safe use of Ritalin during pregnancy have not been conducted. Therefore, until more information is available, Ritalin should not be prescribed for women of childbearing age unless, in the opinion of the physician, the potential benefits outweigh the possible risks.

Drug Dependence
Ritalin should be given cautiously to emotionally unstable patients, such as those with
a history of drug dependence or sicoholism,
bocause such patients may increase dosage
on their own initiative.

on their own initiative. Chronicnily abusive use can lead to marked tolerance and psychic dependence with varying degrees of abnormal behavior. Frank psychotic episodes can occur, especially with parenteral abuse. Careful supervision is required during drug withdrawal, since severe depression as well as the effects of chronic overactivity can be unmasked. Longlerm follow-up may be required because of the patient's basic personality disturbances.

PRECAUTIONS
Pationts with an element of agitation may react adversely; discontinue therapy if necessary. Periodic CSC, differential, and platelet counts are advised during prolonged therapy.

ADVERSE REACTIONS
Nervousness and insomnia are the most common adverse reactions but are usually controlled by reducing dosage and omitting the drug in the afternoon or evening. Other reactions includes hypersensitivity (including akin rash, urticaria, fever, arthraigla, exfoliative dermatitis, erythema multiforms with histopathological findings of nacrotizing vascuilitis, and thrombo

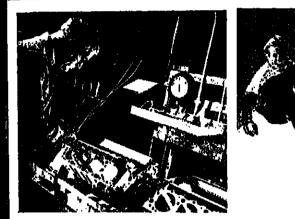
C I B A

Medical Tribune

AN EDUCATIONAL SERVICE FOR PATIENTS

Clues to the Blues Depression is Treatable by Dr. Nothan S. Kline Your Questions About Depression Answer Medical Advances in Treating Depression What Your Doctor Can Do Famous People Who Overcome Depression How Patients Can Help Themselves

to better your health





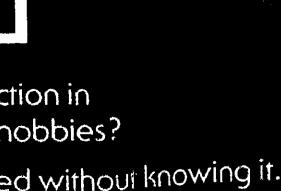


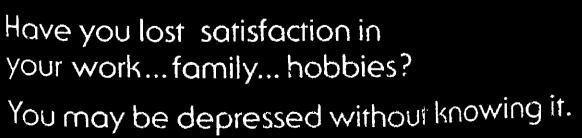


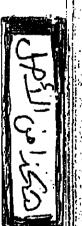












Clues to the Blues

Your enjoyment is lost in activities that were once exciting, satisfying and joyful. Bowling or baseball or hunting or skiing seem hardly worth the trouble anymore. Winning at bridge or poker or gin or pinochle is unimportant. Your hobbies, whether stamp-collecting, knitting and sewing, repairing ma-chines or cooking lose their savour. As a depression deepens, more and more time may be spent reading or watching television, but eventually even these pastimes are no longer satisfying. Neither work nor anything else produces a feeling of accomplishment.

Your pleasure in your family and friends is reduced. No desire exists to visit anyone. If old friends phone, there is no pleasure in talking to them. Everything seems like "the same old thing." You may feel indifferent about your family, including your spouse and even your children. It is frightening at times to feel that no one is important any longer. Some people may, in depression, develop a real emotional anesthesia-complete indifferenceabout those who were once most dear.

Your fatigue may be so great that you haven't enough energy to get things done that used to be simple to accomplish. Everything seems "too much." You may also have feelings of weakness or dizziness, sweating, cold ness or tingling of hands or feet, headaches, and other pains for which no medical cause can be found. You may suspect physical illness but the tests prove negative.

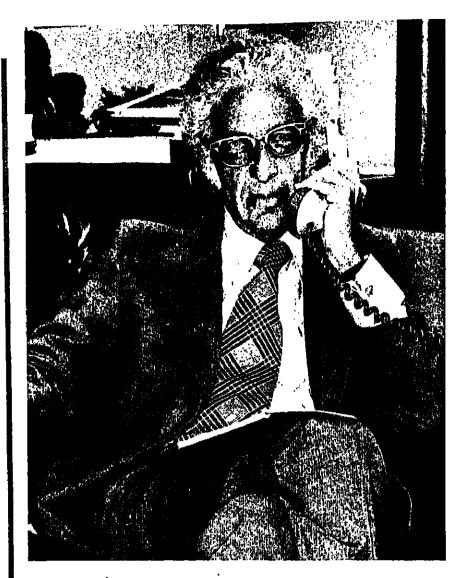
Continued on page 15

Medical Tribune to better your health

is specially prepared for the waiting rooms of America's physicians to provide patients with accurate information about drugs, vitamins and foods their physician may prescribe.

Dr. Louis Lasagna, Professor and chairman, Department of ; Pharmacology and Toxicology University of Rochester School of Medicine and Deutistry; is editor of this service.

Cadh installment features a leading authority on a health problem of concern to the public and to physicians.



By Nathan S. Kline, M.D. Lasker Award Winner; Director, Rockland Research Institute. New York State Department of Mental Hygiene

EPRESSIONS are very much like infectious diseases in some respects. In both, medications are available which work remarkably well. And most patients with either condition tend eventually to recover even if not treated —although the process may be long and painful. Yet some patients do not get well unless treated

Until 20 years ago only a limited number of things could be done to help the depressed person. In some cases psychotherapy helped. In more cases electroshock treatment, now in use about 35 years, helped. But in the early 1950s the first of a whole new group of medications which biochemically relieved depression were discovered. Today we even have means of helping to prevent depression from occurring.

Strange as It may seem, one of the unfortunate aspects of depression is that many people—particularly those who are depressed and their families -do not know that depression is treatable. The depressed person feels over-whelmed with hopelessness. His depression-his withdrawal and irritability-depresses everyone around him, and then things indeed seem hopeless. Today we can successfully treat depression in most cases and interrupt this vicious cycle, which often is destroying the life of an entire family.

Knowing that depression is treatable is a critical factor in altering such a

situation, but the first step is recognizing the signs and symptoms in yourself or some member of your family.

We all have experiences that leave us sad and disappointed, that make us blue and depressed. Life is full of such ups and downs, and that is perfectly normal. But when no glad days occur, when one's blues become a fixed attitude, when life's satisfactions disappear, one can properly and accurately say: "I have a depression." When one is depressed about one aspect of his life, he may find that after talking it over with a friend or relative, with his

"Today we can successfully treat depression in most cases and interrupt this vicious cycle..."

minister or doctor, he feels relieved. Talking with another person helps one gain a more objective and realistic view-even of things that are sad. Often this may be all that is needed. If this does not help, the person is almost certainly in need of treatment. One question frequently asked is,

How can I tell what is ordinary grief

or sadness from what you call depres-

sion?" The degree of pain experienced or the extent to which the depression interferes with normal activities is the best way of judging. In my opinion, three or four days of continuous agonizing depression or marked withdrawal from normal routines should be enough to warrant medical consultation. The fact that there is a "reason" for

feeling deprossed doesn't justify being depressed for a long period of time. Most of us have plenty of reasons to be depressed but fortunately they do not result in a prolonged painful illness. Unrelieved continuous depression requires treatment even if there is a "cause" that can be identified.

Depression is probably as old as mankind, according to Biblical and other ancient records. And efforts to treat it are at least as old. In ancient Greece treatment with diet, rest, and an early form of psychotherapy was given in the Temple of Hyggia. When King Saul had his attacks of melancholy, David played the harp to ease him, necording to the Bible. Mineral spring water was used in Roman times. Begin ning in Greece, and later followed in medieval Europe, a theory was developed that depression was due to an excess of black (melan-) bile (-chel) so that patients with this condition were referred to as "melancholy." Today we know that there is no such substance as black bile, but there is scientific eviclence that the chemical balance of the body is disturbed in depression. What our modern drugs do is to intervene in these chemical disturbances.

Freud's Concept

Dr. Sigmund Freud, who developed psychoanalysis, suffered from depression. He treated himself with the drugs then available. However, the drugs of that day were not regularly effective and safe. Later he and his followers developed a theory that depression developed when anger could not be expressed outwardly against the person, sing it. In such cases it is turned inward against one's self and results in depression. Treatment with various types of psychotherapy, either alone or in combination with medication, is helpful in some cases.

apy is the amount of time it takes and its cost. The number of people who are depressed is so large that this method





"Continued refinements in these medications and their use has now made it possible for millions of depressed patients to be treated effectively..."

from depression do not know treatment is available. The magnitude of this educational problem is staggering. It has been estimated that 15 per cent of the adult population of the United States has some degree of depression which is serious enough to be in need of treatment. This amounts to about 20 million people, which makes it not only the most frequent psychological disorder but also one of the most common of all serious medical conditions. One authority estimates that only 10 per cent of those seriously ill from

dopression are actually receiving treatment. Thus nine out of every 10 persons who are ill from depression receive no help. What has led to this strange and

tragic state of affairs? and what can be done to correct it? For one thing, many people who suffer from depression don't know what is wrong with them. Sometimes the symptoms are even harder to detect than the most common ones listed under "Clues to the Blues."

The person with a depression may be brought to attention because he or she

is a chronic "underachiever." Only close questioning reveals an underlying depression which explains why the person never makes that extra little effort.

In part, a pessimistic outlook makes the depressed person "convinced" in advance that nothing can be done. Sometimes it is the lack of pleasure in accomplishment that stops him or her. At other times, the individual simply does not function effectively.

Depression may also show itself in other ways. Possibly in order to avoid the pain which depression produces, some people have "depression equivalents." For instance, some patients have obsessions (thoughts which they cannot get out of their heads) or they develop compulsions (acts which must be repeated over and over—such as checking time after time to be certain the gas in the stove is off, or that the door is locked). Sometimes there are strange fears or phobias. While there may be other causes for the obsessions, compulsions, and phobias, they are often produced by depression.

Depression and Old Age

Depression, especially if it is accomnamed by anxiety, can be so painful that the patient feels almost anything would be better. To get relief from their persistent "low" or "empty" feelings, such persons often end up taking all sorts of drugs (LSD, opium, morphine, cocaine) and especially alcohol. Properly treated with antidepressant medication, the frequency of drug ad-diction and alcoholism can be reduced.

For this installment

turned to one of America's foremost authorities on depression, Dr. Nathan S. Kline. He won the Lasker Award for his discoveries of effective drug treatment of depression. Today he is director of the Rockland Research Institute at Rockland State Hospital in New York, Clinical Professor at Columbia University College of Physicians and Surgeons and a Fellow of the American College of Physicians and a Founding Fellow of the Royal College of Psychiatrists of England.

He also wrote From Sad to Glad, Kline on Depression, published by G. P. Putnam's Sons, New York, 1974. An advisor on mental health for the World Health Organization and former chairman of the American Psychiatric Association's research committee, Dr. Kline is also in private practice in New York.

Your Questions about Depression Answered

Is depression more common in women than it is in men?

Yes. It seems unfair but almost twice as many women as men become depressed. Medications work well in both groups but are somewhat more effective in men than in women.

Are antidepressant medications habit forming or addicting?

No. It is not the antidepressant medications but a different group of drugs, the stimulants, which may lead to development of drug dependency.

The confused linking of stimulants or "uppersi" (amphetamines and related drugs) with antidepressants is not really justified since the stimulants provide a quick "lift" often followed by a "crash" whereas the antidepressants take about 3 weeks before their effect begins to be felt and there is no drug let down if their use is discontinued

Is it necessary that I understand why I am depressed?

Sometimes yes. Usually no. In some cases the depression arises because of otional problems and insight is useful. In most cases, especially of moderate or severe depression, it is not necessary to know why the depression exists. In fact, it may be difficult or impossible to find a psychological reason. The depression may be entirely the result of biochemical or physiological changes.

Is depression a rare condition?

No. It is the most common of the psychological disorders and far more frequent than most physical illnesses.

Continued on page 14



used against depression. However,

their lift was usually followed by a

crash into "the blues." Moreover, the

body developed tolerance to them—so

that to provide a "lift," they had to be

used in increasingly larger doses—and

at high doses their physical effects are

some patients, their continued use pro-

duced drug dependence. While these

drugs, which are psychomotor stimu-

Electroshock therapy, sometimes

duced in Italy in 1938. It had earlier

been discovered that seizures or con-

vulsions seemed to relieve depression

incertain cases. Because of the tremon-

dous need for some means of providing

relief there was widespread use of this

procedure, even though it sometimes

caused a fracture and some temporary

amnesia about recent events. Improve-

ments in understanding the technique

were developed. When patients were given "muscle relaxants," there were

ewer problems with sore muscles and

occasional fractures. Another refine-

brough only one side of the head,

The next great advance was the

ions seem to correct this condition.

Continued refinements in these med-

kations and their use has now made it

tients to be treated effectively by their

However, one of the major problems

it that many people who are suffering

possible for millions of depressed pa-

Physicians or specialists to whom the

Palients are referred.

eneficial effects may not last.

Magnitude of Problem

ment consisted of sending the current

which eliminated the seizures and re-

duced the memory loss. However, its

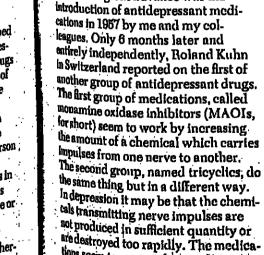
alled "ECT " or "EST," was first intro-

it is limited.

lants, have a certain use in psychiatry.

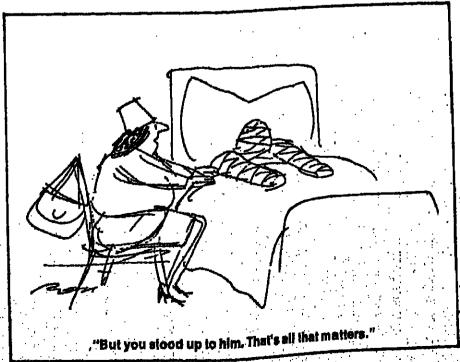
most uncomfortable. In addition, in





One of the limitations of psychothercannot possibly be used for all of them.

The search for effective drug therapy has at times moved up blind alleys. For example, in the 1930's when it was found that the amphetamines, which

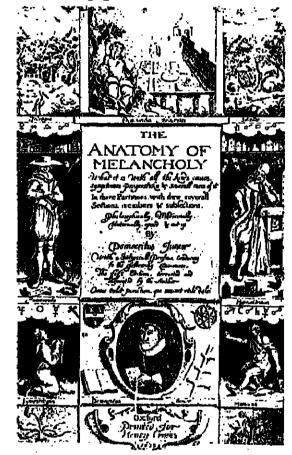




Medical Advances in Overcoming Depression

Anatomy of Melancholy

by Robert Burton, published in 1621, was one of the first medical texts to examine the symptom causes and treatment of depression. Below, title page from a later edition.



Medicinal Plant

Plants, like rauwolfia serpentina—used for centuries in India to relieve auxiety -provided clues to modern medical scientists seeking to create drugs that would relieve depression and other





Dr. Sigmund Freud who was himself often depressed, demonstrated the therapeutic value of having the depressed patient talk about what was troubling him. Through the pa-tient's associations Dr. Freud was often able to recognize forgotten losses and disappointments which were contributing to the depression and feelings of

atrists developed other techniques, such as helping the patient become active in recreational sports, social affairs and hobbies to help overcome feelings of depression. Dr. Freud be-lieved that a blochemical solution would be found for most psychoses.

Antidepressant drugs can prevent suicides





Situations like that shown above can be prevented. Usually the suicidal person will indicate how he feels. Questioning a person if he feels suicidal does not suggest it, as many people fear, and is an important step in preventing it. Anyone may feel



at some point that life is not worthwhile, but talking to someone helps. This is why "Suicide Hotlings" have Hotlines" have been set up in many cities. A physician can not only listen to such troubles, but he can provide drugs which will ease the crisis.



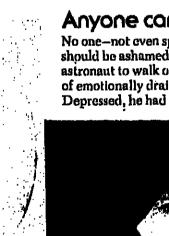
Shock Treatment

Italian physicians discovered in the 1930s that severely depressed patients could be helped with the use of mild electrical shocks to the brain. Considerably improved, with the shock reduced, and added by muscle relaxant drugs, this form of treatment is still used



Stopping the Up-Down

Cycle of Depression
The Australian physician, Dr. John
Cade, recognized that lithium appeared to help patients who went
through cycles of being very depressed and then very active and full of energy.
Other medical scientists then helped to refine the use of lithium so that today it is used to prevent these wide swings in mood. Meanwhile in Washington, Dr. William Bunney and other medical researchers used studies of such depressions to discover that there is a blochemical warning of the swing from "blue" moods to "high" ones. This has grantly encouraged scientists to believe that full control of deprossion through drugs is close at hand.



Anyone can be depressed

No one—not even spacemen—is immune to depression and no one should be ashamed of feeling "blue". Astronaut "Buzz" Aldrin, third astronaut to walk on the moon, felt overwhelmed by the endless round of emotionally draining public appearances on returning to earth. Depressed, he had the courage to say so and seek treatment.





The Gloomy Dane In Hamlet Shakespeare dramatized the paralyzing character of depression.



Bables need approval

These pictures are from a research movie made by Dr. Rene Spitz proving that the infant responds even to a face painted on a balloon.

Your Questions about Depression Answered

Continued from page 11 How long does it take for the medication to work?

Three to four weeks is about the average time required for antidepressant medication to begin working but if a low starting dose is used it may take even longer. It is important to realize that there may not be any advance evidence of improvement and patients should not be discouraged if no change is noted for the first 3 to 4 weeks. Once improvement begins, it usually continues quite rapidly and within another month the patient is recovered.

Can I have a depression without feeling depressed?

Yes. Sometimes, in order to protect her self or himself against the anguish of a depression, an individual will attempt to "bury" such depressed feelings and will then develop other symptoms, even physical ones, which substitute for the depressed feeling. A headache or a stomachache may be such a substitute in some cases. Physicians call this a "masked depression."

Do antidepressant medications have side effecta?

Yes. Any drug potent enough to be useful almost always has some other action as well. This is true of drugs for arthritis and heart disease as well as for depression. The antidepressants often produce dryness of the mouth, sometimes constipation and occasionally oth**er side effects.**

Compared with most medications. the antidepressants are quite safe and their side effects either disappear with continued use or when the drug is discontinued.

Is depression inherited?

We don't know. There is a tendency for certain families to have more depres sion than others but it doesn't follow the usual pattern of inherited diseases. We're not certain as to why one member of a family becomes depressed and another does not.

Is depression an inevitable part of growing old?

This is not true. Most people who are going to have depressions will have had the first episode long before they are sixty or seventy. Part of the problem is that we sometimes expect older people to be very quiet or depressed -and we almost discourage cheerful and happy behavior among them by: our expectations. We don't encourage them to be active. Given half a chance many elderly people will enjoy the same movies, television, sports, jokes, pionics and other experiences—just as younger people do. If they don't, it may well be that they are depressed and in need of treatment.



What your doctor can do

F YOU FEEL DEPRESSED, your doctor can determine if you need treatment. There is no blood test to diagnose depression. Therefore, the decision as to whether your symptoms add up to a disorder for which medication or some other treatment should be given must be made by your doctor or the specialist to whom he refers you.

In part, your doctor's diagnosis is based on how severely you are suffering and the degree to which your functioning is crippled. Almost everyone thinks of commit-

ting suicide at one time or another. This can be frightening and depressing in itself. Your doctor can help you distinguish whether or not you are really suicidal. That this idea may have occurred to you should certainly be mentioned to your doctor. But it does not necessarily mean you are suicidal. When you talk about it be sure to explain: 1) whether it is just a thought that passed through your head; 2) whether you wish you were dead but don't feel strongly enough to try and do something about it; 3) whether you wish you were dead and do feel strongly enough to try and do something about it; 4) whether you don't really want to be dead but are afraid you may try to do something; 5) whether you are in a most uncomfortable or anxiety-producing or upsetting situation that you feel you simply can't stand another

24 hours—even if you have "to kill yourself" in order to get it over with, because your doctor can give you some medication to provide great relief for anxiety rapidly; 6) whether you are angry or disappointed or guilty about something that happened between you and someone else, someone whom you feel would react to your being "dead"

"Unrelieved continuous depression requires treatment even if there is a cause'...'

by feeling sorry or angry or upset. Your doctor can also help decide whether your hospitalization is desirable. Many patients are afraid of being "put away" in an institution. Often however, it is a great relief not to have total responsibility for yourself and what happens. It also can make things easier by temporarily separating you from your problems in living and working. Reducing the immediate pressure in this way can provide great relief. Sometimes patients feel that some other person is involved in provoking or causing his illness and going into a hospital provides an "escape."

If medications are needed they can often be given in much higher doses-

and responses may be more rapidhospital setting. Fears of patients they will be "locked away" foreign unrealistic. All sorts of legal salegu exist to protect the patient. In anyon hospitalization is rarely needed with

Depression is not an inevitable part of

ple the diagnosis of depression can be

easily missed and as a result their con-

dition may be unnecessarily compli-

cated and inadequately treated. If

someone has arteriosclerosis of the

brain or symptoms of senility, the

presence of depression may make the

symptoms of arteriosclerosis or senility

worse. It may be difficult to detect the

depression. Yet when antidepressant

clears up, the person is able once

medication is used and the depression

again to compensate for the other dis-

Other conditions may at times re-

semble depression (for instance schizo-

phrenia, hysteria, certain neurological

disorders). If the patient is actually de-

pressed but is misdiagnosed as having

one of these other indicated conditions,

then antidepressant treatment will not

begiven and the patient may continue

in some instances, fear keeps people

who are depressed from proper treat-

ment. One such fear, which has been

inthis country, is that the drugs may

nificance in clinical practice.

Patients sometimes worry that if

produce dependence. If this does hap-

pm, it is so rare that it has no ordinary

they once start to take medication they

cannever stop. This is completely un-

lne. A patient can stop completely at

any time without ill effects, although of

course it is possible that the depression

heightened by the hysteria about drugs

to be ill for a long time.

orders and can function effectively.

wing older. However, in older peo-

Your cloctor will usually explaint nature of the medication he is giving to you. Most antidepressants take about three weeks to begin to worke another few weeks before the full of starts to be felt. The antidepressan medications are very much like the antihistamines—sometimes the first medication doesn't work and two three have to be tried.

With a few of the antidepressant medications a diet must be observed. certain foods and medications are imited or eliminated. If you are given one of these medications your doct will give you a list of the foods and drugs to be avoided. There are certain disenses, such as one type of glaucom, in which medications must be used with caution, so be certain to give you doctor a list of any previous illuster.

The side effects of the medication are usually more annoying that seious. Dryness of the mouth and some constipation are the most commonly the first few days there may be some sleepiness and occasionally a patient may feel a bit unusual or peculiaries short time. Sometimes there is a little "lightheadedness" or dizziness which you should let your doctor know about

Let Your Doctor Know

The decision about what drug took depends on what symptoms you have; and your medical history. If you law had previous depressions, it is used to be able to give the doctor comed information about when the depres sions occurred and how you was treated, that is, how much of which drugs. Howaver, this information absolutely essential. It is essential see your doctor even if you don't be all the details of any past treatment

Once your symptoms are gone it doctor has soveral decisions to make He muy decide that medication sho gradually be reduced and then did tinued. Sometimes it is advisable in remain on a low "maintenance" de for quite a while. If you have bad y vious depressions, your doctor and

vious depressions, your doctor established to place you on lithium.

Lithium acts as a kind of "insuffice" against recurrence. In about 15 per cent of the cases it doesn't have your continues of the cases it works in the case it works in the cases it works in the case mediately and completely, and in another 70 per cent of the cases the patient becomes better able to deal with depression as time goes on.
During the first six months there is the six months there is the six months in the six

be recurrences. It is important to large this because if another episode of pression occurs the patient may be the drug isn't working." The problem really would be that the patient working is the patient working w been on the drug long enough on narrly the doctor will continue the lithium and add an antidepressal medication. The antidepressal discontinued gradually after the pression is over but the lithium

Your doctor can explain to the sand friends that depression has a "favorable prognosis" which mean that there is a great likelihood that outcome of treatment will be good. Your doctor can treat depression

'Most antidepressants take about three weeks to begin to work...

may come back. It would be like a fever in which aspirin is used to relieve the elevated temperature. If the aspirin is stopped before the disease is cured, the fever will return. At the very worst one can restart treatment.

Built-In Self Defeat

Self-defeating behavior seems to be built right into the fibre of depression. The unfavorable evaluation of one's self that is a characteristic of depression often prevents treatment. This is not the curious case of an isolated individual but one of the main factors preventing treatment for millions. Such people feel that they aren't worth treating, that they don't deserve the time, effort and money required. Often they feel so depressed that they feel the treatment won't work in their case even if it cures everyone else.

Curiously, there are also many people with the mistaken idea that emotional or psychological problems cannot or should not be treated with medication—it is too easy. They are convinced that they should suffer or somehow force themselves to feel bet-

ter. This is truly foolish since no one wants to be ill and if it were a matter of wishing or will power there would be no illness—either physical, emotional or mental. Most people don't try to "pull themselves together" for pneumonia or a broken leg—they go to a physician for help.

Finally, there are those who "don't believe in drugs" or who worry unduly about side effects. Whether one should or should not use drugs for pleasure is open to discussion, but not to use mediention for treating a serious Illness such as depression would really be immoral.

Not only is it possible to treat depression successfully in 85 to 90 per cent of cases, but we now have a powerful new weapon in the fight against mental illness: a simple substance called lithium which is usually capable of preventing the recurrence of most types of depression (not just manic-depression) or of markedly reducing the symptoms. Even if the depression should recur, the patient will almost always be able to continue to function. In such cases small doses of the antidepressant drugs, when added, are usually sufficient to relieve all symptoms rapidly.

In the treatment of emotional and mental disturbances, modern medical science has reached the point where the treatment of depression has achieved a high degree of effectiveness. After centuries of suffering, we now have great success in quickly relieving depression in the man or woman suffering so unnecessarily.



Continued from page 10

You may have insomnia frequently. It may be of the type in which there is a great deal of difficulty in getting to sleep. But sometimes going to sleep is no problem but then, after a few hours, sleep is fitful with constant restlessness, awakenings and dozing, for the remainder of the night. One very common pattern is one in which getting to sleep is not a great problem but there is "early morning insomnia." The patient awakens at 3 or 4 a.m. feeling depressed and anxious about many things—which he feels he cannot do anything about.

Your Interest in sex and sexual activity may be decreased or absent.

Your loss of appetite may lead to loss of weight. If this is combined with constipation, you may suspect some serious disease, such as cancer, and gloomily accept that suspicion as true—as something "nothing can be done about." All this is exaggerated by your "doomed" outlook.

Anxiety adds to the discomfort. Most people with a depression also have anxiety which makes for a very uncomfortable state. Often they are so anxious or "nervous" that they cannot sit or rest comfortably. At times they are very frightened without knowing why.

The irritability of the depressed person often makes it difficult for those living with him or her. Despite general lack of interest and indifference about life in general, persons with a depression are easily irritated and tend to become angry with other people, even when they are trying to be helpful.

Do you feel gullty? Part of being depressed is to feel that there were many things you did in the past that you should not have done-or that you did not do things you should have done. In both cases the events are usually magnified and were actually unimportant or trivial. You may also feel guilty because you are not functioning as well as you could due to the depression. In addition, most people with depression feel guilty because they recognize that they have withdrawn their affection. and no longer feel as strongly toward their loved ones as they did in the past. Fortunately, as the depression is relieved, the feelings of guilt disappear.

No one person has all of the symptoms listed in "Clues to the Blues." Some may have a few symptoms very intensely or a variety somewhat more mildly. One symptom may not be sufficient to make the diagnosis but should arouse concern. Because some symptoms occur in other diseases, professional help may be needed for a correct diagnosis.





Famous people who overcame depression ANY FAMOUS PEOPLE have suffered and now I cannot find the key to let

M intensely from depression yet gone on to achieve great goals. Abranam Lincoln suffered recurring depressions, beginning in young manhood.

Nathaniel Hawthorne became so depressed learning to write, that for 12 years he rarely left his room. He wrote Longfellow: "I have secluded myself from society; and yet I never meant any such thing. I have made a captive of myself and put me into a dungeon.

myself out." Winston Churchill took up painting

to relieve his anxious depressions. He called his depressions "my black dog." Once, "for two or three years, the light faded out of the picture... I sat in the House of Commons but black depression settled on me." Much of their suffering could have

been relieved if modern drugs had been available.

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in the United States suffer-really suffer like you-from depression. Mental and emotional disorders are extremely common. Yet the sad fact is that probably only one of every 10 persons ill of depression goes for treatment.

Recognizing that you are depressed and need help is the first step in recovering your ability to enjoy life.

Even reading this article means you are far better off than the average person since you now stand a much better chance of recognizing if you have a depression and of going for treatment. Since 85 to 90 per cent of patients respond well to treatment, by going for help you can reduce the amount of suffering both for yourself and those around you. Knowledge that you can and will get better changes everything.

Probably the most important thing a patient can do to be of help is to follow the doctor's orders exactly as directed. Sometimes patients feel they are doing something helpful if they take less medication than the doctor prescribes

"Recognizing that you are depressed and need help is the first step in recovering..."

or if they stop before they are supposed to. Exactly the opposite is true. Taking too low a dose may result in the treatment taking much longer to work, or in achieving only partial relief of symptoms. Stopping too soon, even though the symptoms have disappeared, may result in a recurrence.

One or my patients told about her treatment on television and received hundreds of letters. She replied to those who wrote to her that:

1. Drug treatment worked for her when all other treatment had failed, but it did not solve all of her problems. Initially, her depression was so strong that it overwhelmed everything else. But when her depression was relieved, she was then much better able to deal with her other problems.

3. "Remember that it takes several weeks for antidepressant drugs to work. Taking pills for only a few days won't immediately relieve your

4. "There may be uncomfortable

side effects at the beginning of treatment but hang in there and give your body a chance to adjust. It is a small price to pay for relief of the agony of depression.

5. Don't take any other medications unless you check with your doctor.

6. Don't stop taking your medication because you feel better. Only your doctor should make that decision. There is nothing wrong with taking medication for a long period of time if it is needed. Many people feel it is a sign of weak-ness to "depend on a drug" but no one makes judgments about a diabetic's character because he or she uses insulin. "I certainly feel no guilt or lack of strength because I take a medication which my body needs and which allows me to be a productive and mentally healthy human being."

7. Lithium and antidepressant drugs are not addictive or habit forming.

8. "Don't feel ashamed or blame yourself for being depressed. And don't make the mistake of believing that your recovery is something you have to

accomplish by yourself,"

9, "You will feel frightened and disheartened when you feel low after having experienced some comparatively good days. Just remember that you are one of millions of people who are walking this path and that there seems no other way to be completely well. . . .

"I finally learned to really utilize the days when I felt well and to concentrate on the future when I felt re-depressed.' I know of no other way. Just remember that there are good days now-not long ago all was hopeless."

10. Drug therapy is a relatively inexpensive approach to the problems of depression. But if you need financial assistance, don't hesitate to call your local Mental Health Association, State Department of Mental Health, Department of Welfare or perhaps your synagogue or church.

II. "I have directed my statements to you who are suffering the agonies of depression because you are my first

remarks with those who care about you and who want to help. Just remember that although they don't understand

and often do not know what will be most beneficial unless you inform then or ask them for help."

How the family can help

I IVING WITH a person who is suffering from a depression is very trying. Soon everyone is depressed to some extent-but unlike the person in the grip of the depressive syndrome, they retain some objectivity and the feeling that life is worth living. However, the withdrawal and irritability of the depressed person, his or her rejection of loving attention, often makes trying to help seem useless. Betty Hamilton, who recovered from

her depression with the help of drug treatment, wrote some guidelines for families struggling with this problem.

"Trying to help a depressed person who is often changeable and unreasonable is a lonely, baffling experience. . . . "But keep in mind we are no longer

living in the Dark Ages...and there are now effective and lasting treatments for depressive illness. So the most significant contribution you can make is to help the depressive you care about find that treatment."

In addition:

a. Strive to understand that life, for the depressive, is full of an overwhelm ing agony and hopelessness and fear. Doing physical things for him or her, like cooking a meal, or even answering the telephone will be a loving and helpful gesture.

b. Don't advise that "if you only will get hold of yourself, everything will be all right." This advice is as ridiculous for the depressive as it would be for the person suffering from appendicitis. c. Be patient. My husband, Paul,

tells me he used to pray for patience my presence and then cuss like mad after he had left me. I suspect that both the prayers and the cussing helpedhis.
d. Anyone who threatens suicide

should be carefully watched and assisted in finding professional help immediately.

e. Your constant assurance that help is available and that the patient will get well is a vital contribution.



Greater Use of Hemodialysis At Home Urged

Wednesday, December 24, 1975

·#7181888717

Continued from page 1 dependent relationship," Dr. Scribner

Other key causes, he believes, are the "poor quality" of many programs set up to train patients in home dialysis techniques, and the lack of adequate supporting services such as cannula clinics open around the clock and help from social work departments.

Emphasizing the economic cost of dialysis performed in centers, Dr. Scribner said it is now predicted that the number of patients on dialysis will level off at about 30,000 persons (the current figure is 18,000).

Two Extremes

If all of them were to be treated in centers-"and that's the way we're heading"-at an estimated cost per patient per year of \$23,000, the annual overall bill would be close to \$700 million, he pointed out.

By contrast, the total cost for that number of patients on home dialysis would be approximately \$300 million, since home therapy can be achieved at an average yearly cost of \$10,000 per

These situations obviously represent two extremes, Dr. Scribner said, and he made clear his position that a sizable group of patients with end-stage renal disease cannot cope with home dialysis because of their physical or emotional state or home conditions and so must receive treatment at a center.

In his opinion, however, the minimum estimate of patients suitable for home dialysis is probably around 40% of the total number, with a maximum goal of 80%.

He added that the 95% of Scattle 95% of Los Angeles County patients year would save an estimated \$4,000 on center dialysis "certainly" is out of over that period, he noted.

Two potential incentives for wider use of home dialysis are under consid- between home and center dialysis beeration, he commented. One is legis- cause this is "the kind of money people lation "now in the works" to provide are going to be looking at harder and coverage for all costs of the patient who manages therapy at home, requiring the kinds of programs get tighter and center-care dialysis patient (or insurance company or other provider) to assume 20% of the costs.

The other is dialyzer re-use, an inno-

and iron

anemias

denciency

vation not vet authorized but one Dr. patients currently on home dialysis is Scribner thinks has been proved both probably" too high a figure while the safe and effective. Re-use six times a

In cerebral and peripheral ischemia associated with arterial spasm

Dr. Scribner warned that it is essential to consider the difference in costs harder as the dollar-squeeze on these

hematinics

choice

But he also stressed his conviction that home dialysis is clinically preferable because it fits in with established

Indications: For the relief of cerebral and peripheral ischemia associated with arterial spasm.

Contraindications: The use of etha-verine hydrochloride is contraindi-cated in the presence of complete atrioventricular dissociation,

Precautions: Use with caution in patients with glaucoma. Hepatic hyper-sensitivity has been reported with gastrointestinal symptoms, jaundice, eosinophilia and altered liver func-tion tests. Discontinue drug if these

The safety of ethaverine hydrochloride during pregnancy or lactation has not been established; therefore it should not be used in pregnant women or in women of childbearing age unless, in the judgment of the physician, its use is deemed essential to the welfare of

Adverse Reactions: Although occurring rarely, the reported side effects of ethaverine include nausea, abdominai distress, hypotension, anorexia, constinution or diarrhea, skin rash, majaise, drowsiness, vertigo, sweating, and headache.

Dosage and Administration: One cap sule (ĥree times a day. How Supplied: 100 mg capsules in bottles of 50 and 500.

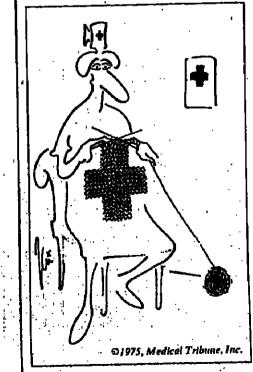
> therapeutic guidelines for management of chronic illness. "When there's a choice, chronic ill-

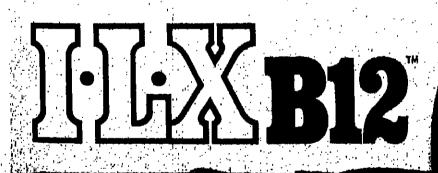
ness is always better treated at home than in an institution," he said. "The more responsibility the patient has for his welfare, the better the result. And the more informed the patient is about details of treatment, and about complications and how to avoid them, the better the adjustment."

At a highly practical level, Dr. Scribner noted that home dialysis can be carried out while the patient sleeps and thus permits a return to work and other normal activities. Such nighttime dialysis is offered in Scattle, he said, but the great majority of centers provide dialysis service only in daytime hours.

Summing up, Dr. Scribner called the indications for home dialysis "very real" for clinical as well as economic reasons. "And what we are to do about the

declining percentage of patients on such therapy is a very serious problem," he





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Cyanotobalamin (Vit B12);
10 may + Liver Fraction 2;
2 gr + Thiamine Hydrachlo;
ride, 2 mg + Riboflevin;
2 mg + Nicotinamide, 20 mg

ble hazards to the felus. These hazards include fetel or neonatal Jeundice. Incombocytopenia, and possibly other edverse reactions which have occurred in the adult.

Norsing Mothers:
Thiszides cross the placental barrier and appear in cord blood and breast milk.

PRECAUTIONS

Quanethidine: The effects of guanethidine are cumulative over long periods; initial dose should be small and increased gradually in small increments.

Use very cauliously in hypertensives with renal disease and nitrogen retention or rising BUN levels; coronary disease with their ficiency or recent myocardial infercion; derebral vescular disease, especially with sneephalopathy. Do not give guanethidine to

In moderate hypertension...

et Guanethidine and methyldopa proved to equally effective in controlling moderate elevated standing dia stolic blood pressure However, reduction of mean blood acceptable le achieved nore with guane hi with methyld

1. Tarpley EL: Controlled trial of guanethidin and methyldopa in moderate hypertension.

Curr Ther Res 16:1187-1196, 1974.

*All patients also received concomitant the with hydrochlorothiazide.

Peptic utcars or other chronic dis-porters may be aggravated by a relative increase in parasympathetic lone. Amphetamine-like compounds, simulants (eg., ephety frei methylpheti-dais), Micyelic antidepressants (eg., emitripyline, impramine, desipra-

mine) and older psychopharmacologic agents (eg., phenothiazines and related compounds), and oral contraceptives may reduce the hypotensive effect of guanethidina. Discontinue MAO inhibitors for at least one week before starling guanethidine, hydrachierethiazide: Periodic determination of serum electrolytes to detect, possible electrolyte imbalance should be performed at appropriate intervals. Observe patients for clinical algra of fluid or electrolyte imbalance (hypotharmia, hypochloramic alkelogia, and hypokalamia). Serum and

urine electrolyte determinations are particularly important when the callent is vomiting excessively or receiving parental initias, Medication such as digitalis may also influence serum electrolytes. Warning signs are dryness of mouth, thirst, weakness, lethergy, drowsiness, resilesspess, muscle pains or cramps, muscular failgue, hypolension, oliguris, lacthycardia, and gastrointestinal disturbance such as nausea or vomiting.

typokalemia may develop with this especially during brisk diuresis, when

taked devations in plasma cat-can may occur in palanta receiving saids, particularly in those with sees in the parathyroid glarid have assigned in a few patients on the parathyroid glarid have the

gout may be precipitated in certain patients. Insulin requirements in diabetic patients may be increased, decreased, of unchanged, Latent disbetes may become manifest during this lide drugs and insulide administration.

thiazide administration.

Thiazide drugs may increase the responsiveness to tubocurarine, the antihyperlensive effects of the drug may be enhanced in the post-sympathectomy patient. Thiazides may decrease arterial responsiveness to norepineptrine. This is not sufficient to preclude effectiveness of the pressor agent for therapeutic use.

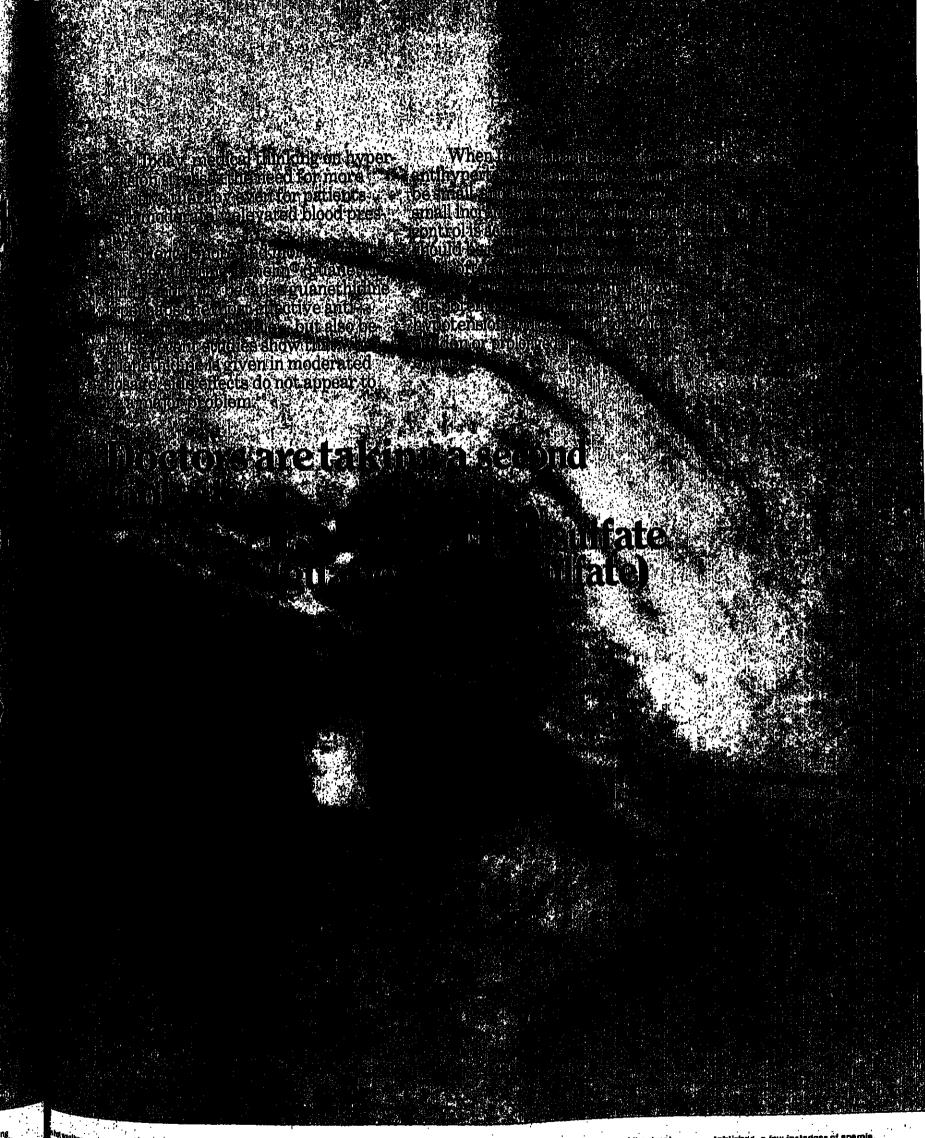
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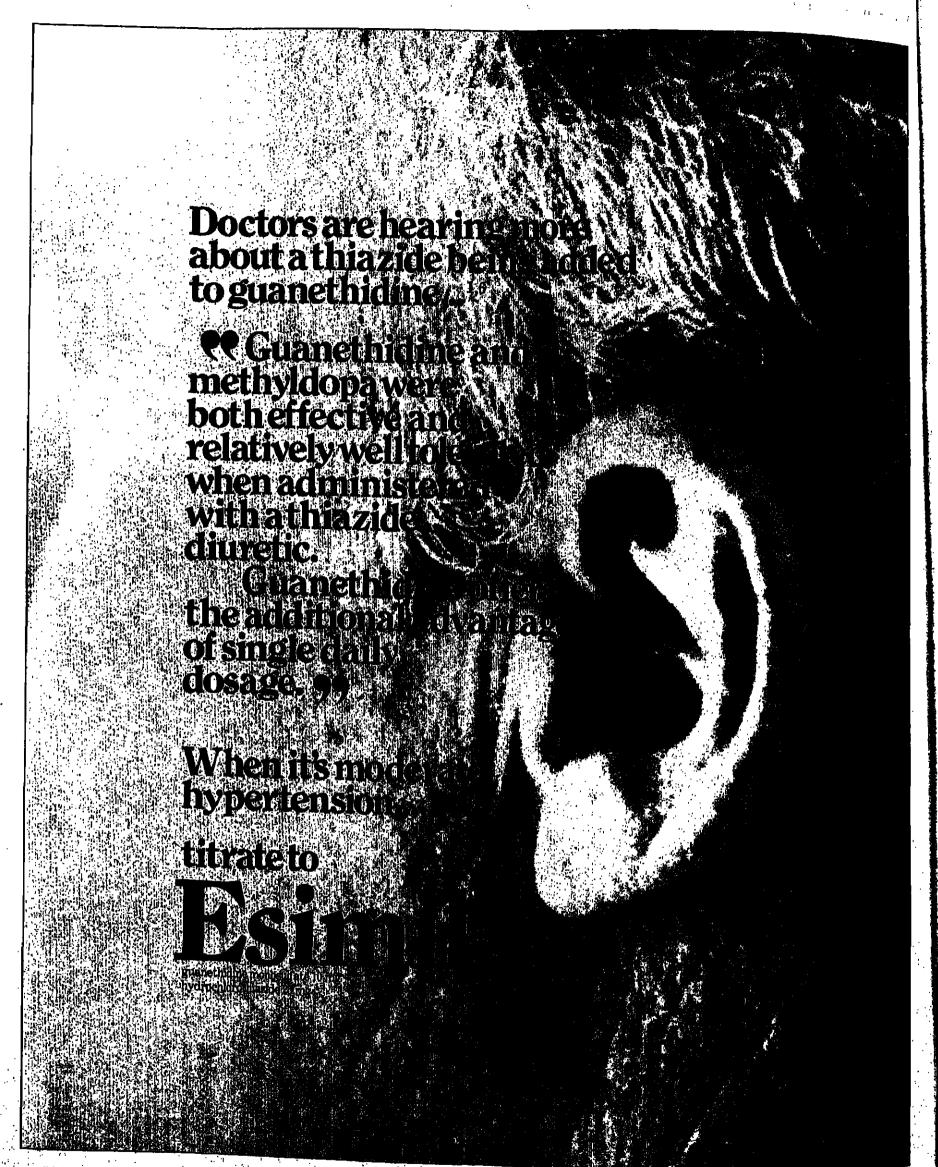
Other common reactions—inhibition of ejeculation, fluto retention, edema, congestive heart failure. Other fess common reactions—dysponea, fatigue, nauses, vomiting, nocturis, urinary incontinence, dermaltitis, scalp hair loss dry mouth, rige in BUN, plosis of the lids, blurring of vision, paretid fenderness, mysigis, muscle tremor, mental depression, chest pains (angina), chest paresthesias, nasal congestion, weight gair, and asthma in susceptible individuals. Although a causal relationship has not been es-

labilished, a few instances of anemia, thrombocylopenia and leukopenia have been reported.

Hydrochlorothiazide: Gastroiniestinal—angrexia, gastric, tritalion, naussa, vomiting, cramping, diarrips, constipation, jaundice (Intrahapatic cholesialic), pancreatitis. Central Nervous System—dizziness, vertigo. (Brief prescribing information continued on next page)







torogic-Hypersensitivity—bur-)
holosensillyity, rash, urticaris,
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Ismelin initial dosage should be low and ininitial dosage should be low and increased gradually by small increments,
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All the Agriculture of the Agric hypertensive drugs, Am J Med 88:495-503, 1975. 3, Freis ED; The Modern Management of Hypertension, US Government Printing Office, 1973, pp 13, 14, 4, Langford KS: Hypertension, In Conn He (ed): Current Therspy, Phila-delphia, The WB Saunders Co, 1973,

p. 201. 6. Briggs AH, Holland WC: The cardio vascular system: Anthypertensive drugs, in DiPaime JR (ed): *Orih's Pharmacology in Medicine*, ed 4, New York, McGraw-Hill Book Co, 1971, pp. 853-868. pp 853-868. 6. Glazer N. Comparison of guanethi-dia and methyldopa in essantial hypertension: A controlled study, Curt Ther Res 17:249-256, 1975.

Vednesday, December 24, 1975

Man. ...and Medicine ARTHUR M. SACKLER, M.D.,
fernational Publisher, Medical Tribute



The Three "Horsemen of Death"

Alcohol, Tobacco and Firearms

The Treasury Department's Bureau of Alcohol, Tobacco and Firearms announced recently that it would not require the listing of ingredients on labels of alcoholic beverages-News item.

THOR YEARS, we have been baffled by the government's evasion of its legal respon-I shillty through the device of "baptising" alcohol as a food despite its clearly addicting potentials and its pharmacologic as well as toxic effects. To call alcohol,

to which 9 million Americans are seriously addicted, a "food" and to simuluncously regulate prescription drugs, some of which are important in therapeutic regimens for managing alcoholism, is blatant hypocrisy—and a regulafory farce which sets logic on its head.

With a few rare exceptions (such as Dr. Theodore Cooper, Assistant Secretary for Health, and Dr. Morris E. Chafetz, former director of the National Institute on Alcohol Abuse and Alcoholism), U.S. health officials in the past have turned their backs on disease wasing alcohol while they piously ply their attacks on medical therapies whose roblems, at worst, are as "pimples" empared to the "cancer" of alcoholism.

The Nonregulatory Treasury

For years we noted that most of the new consumer advocates and public inerest groups had failed to engage the issue or to promote balanced perspeclives on the priority of our public health problems—particularly as they relate to akohol. Be that as it may, the Center for Science in the Public Interest, through its Associate Director, Dr. Michael Jacobson, did enter the fight in 1972. It has charged that a government agency—the Treasury Department's Bureau of Alcohol, Tobacco and Fireims-is going completely beyond its authority and flaunting the law by ignoring the requirements of the Food, Drug and Cosmetic Act.

The Treasury Department's Bureau regulatory responsibility for three of the major causes of preventable mortality and morbidity in the United States. Incredibly, that bureau appears to act more as a nonregulator of the hee Horsemen of Death and Disabil--alcohol, tobacco and firearms—than s a protector of the public whose instesse are entrusted to it.

and package inserts for safe and effecthe therapeutic, not recreational, prehension, if not decency.

From its founding, MEDICAL TRIBune's editorial credo has addressed the need for perspective as well as for constructive action on alcoholism. It has pointed out the fact that alcohol and tobacco are two of the most addicting and toxic substances known to man. The toll of alcohol is massive. Of all automobile fatalities (over 50,000 deaths per annum), 50% are associated with high alcohol blood levels. Also, in respect to mortality, circhosis of the liver is the fifth leading cause of death for men in the productive years from 25 to 64. Alcoholism is implicated in malignancies such as cancer of the esophagus; its neurotoxicity is both cerebral and peripheral; its reduction of resistance to infection and trauma is notorius. In social terms, it is not only a destroyer of careers, it is a disruptor of the home (eight-fold greater fre-

butor to addiction in the young.

quency of divorce), and major contri-

In youth, alcohol is the first and probably most important drug of abuse as it may be the initiator of addiction to hard narcotics and multiple drug abuse. In economic terms the loss of life and limb are superimposed upon fires and home accidents. Work days lost from alcoholism are estimated at 44 million per year. However, it would appear that a government so vigorous in the pursuit of nonaddicting, noncarcinogenic, nonof Alcohol, Tobacco and Firearms has neurotoxic, noncardiotoxic drugs has little appetite for taking on the one drug which actually accounts for one of the two greatest causes of preventable mortality and morbidity in the United States.

Belatedly, but happily, we now hear from the FDA that "more informative labeling is in keeping with the best interests of the consumer." Considering the showing of regulatory muscle in the late cyclamate fiasco and the earlier levably, the bureau now gives cranberry bog, one wonders what could as its reasons for non-action the excuse have accounted for the past apathy at that the listing of ingredients in alcothe FDA in regard to the proven, toxic legislative action (and it need not be bolic beverages would "confuse" the and addictive drug or so-called "food", consumer, cost him money, and that alcohol. One must marvel at the reguthere is no indication it is desired by latory intellectual footwork which first the public. For a government agency to enables a government to side step regumake such a statement in the face of the lating alcohol as a drug because it is a the full perspective of the public health, to control therapeutic procedures and supported the package it is a the lust perspective and the package it is regulating alcohol as a food by having leave uncontrolled dangerous redreathis responsibility delegated to a nonacting Bureau of Alcohol, Tobacco and not the substance of true health legis-Firearms.

Medicine on Stamps Robert Tait McKenzie



This distinguished Canadian-born sculptor and physician (1867-1938) received his M.D. from McGill in 1892 and an L.L.D. in 1921. A pioneer in the field of physical education in medicine and the influence of exercise on the heart, his Reclaiming the Maimed was used by the surgeon general of the U.S. Army for reconstruction of hospitals in 1918. He was Director of Physical Ed., U. Pa. 1904-30. His important sculptures are in the Canadian House of Commons, Canadian National Gallery, and also in London, and Washington, D.C.

Text: Dr. Joseph Kler Stamp: Minkus Publications, Inc., New York

That bureau is currently in default in respect to regulatory action on two other major killers and cripplers-tobacco, whose victims are marked in the scores of thousands, and firearms, a major vehicle for death by suicide and death by assault. It would appear that the "Horsemen of Death and Disability" through alcohol, tobacco and firearms have little to fear from the bureau of a government department which at the same time garners high tax income from the sale of two of these highly toxic agents.

In view of the fact that Treasury may have either a "conflict of interest" or a "conflict of conviction," it is fitting that the Department of Health, Education and Welfare (whose funds are depleted in caring for the ravages of these dangerous agents) should take over. Two things appear clearly evident. We will watch with the greatest interest whether that which is obvious and that which is right will come to pass:

1. The FDA should act on its responsibility for the labeling of alcohol. This can be done immediately in accord with its agreement with Treasury's Bureau of Alcohol, Tobacco and Fire-

2. Leaders in Congress in the forefront of national health issues such as Nelson, Kennedy, Fountain, Rogers and Moss can immediately set legislative hearings on this most vital of health

More lives can be saved by simple prohibition) for better control of just three items-alcohol, tobacco, firearms -than could possibly be saved by a mass of other legislative activity. In tional agents is to offer the shadow but fation, regulation and enforcement.

Sputum Cytology **Aids Detection** Of Lung Cancer

Continued from page 1 earlier chest films and an examination of the upper respiratory tract.

Of the 35 patients whose cancers were diagnosed by sputum cytology alone, all were shown to have squamous cell carcinoma, presumably at an early stage, the Mayo researcher said. On the other hand, about half of the lung cancers detected in initial X-ray screening were at a much more advanced stage.

"About 70% of the 35 patients whose lung cancer was detected by sputum cytology and who were treated surgically or with radiation therapy appear to have a favorable outlook," Dr. Sanderson said, stressing the preliminary nature of his findings.

Conservative Surgery

In many cases, surgery in those patients has been limited to lobectomy. Dr. Sanderson explained, noting that "our surgeons are emphasizing conservative resection to spare functional, tumor-free lung tissue. This may facilitate reoperation in some individuals who are so unfortunate as to have a subsequent second primary tumor of recurrent cancer.

"Those who haven't done as well have suffered the consequences of other smoking-related diseases, including coronary heart disease and other cardiovascular diseases, more frequently than they have had recurrences of their lung cancer.'

As of late October, 9,165 male smokers over 45 have entered the Mayo Lung Project, Dr. Sanderson said. Of 7,038 men who completed the first phase of the screening program, 60 were found to have previously unsuspected cancer on entry. Among the participants who had follow-up screening examinations, 17 new cases were detected.

"Although the duration of follow-up remains brief, and the number of patients with lung cancer is relatively small, these initial data offer some encouragement ... [Through screening] persons with presymptomatic lung can-cer can be identified, the tumors localized, and the patients treated . . . Early results suggest long-term survival and possible improvement in the quality of life" said Dr. Sanderson, who is Associate Director of the Mayo Lung Project.

PATIENT EDUCATION can begin in your waiting room if you'll remove the special section from this paper titled

THE GOOD DRUGS DO and put it in your waiting room. Edited by the top pharmacologist, Dr. Louis Lasagna, it will help build doctor-patient relationships. It begins on Page 9.

matrix with a mission

...for the treatment of hypokalemia ...for the prevention of hypokalemia when dietary intake of K is inadequate

Slow-K

(potassium chloride)
slow-release tablets 8mEq

The Slow-K wax matrix is intended to provide a controlled dease of potassium to minimize itelikelihood of high local conrations of potassium within the

Comparison studies 1-8 show tw-K to be far more palatable and invenient than liquid KCI. Furer, Slow-K caused much less ea, heartburn and diarrhea urrence of abdominal crampwas comparable). Also, no evince of GI bleeding was detected nen Slow-K was administered y for 14 days to 30 male volun-

the mission: to deliver K The mission: to deliver K Dependable potassium patients will take supplementation

The problem of patient com-pliance posed by the unpleasant taste and aftertaste of liquid potassium supplements is not a factor one need be concerned with when prescribing sugar-coated Slow-K tablets. For when compared to liquid KCl preparations1-4 or to a potassium gluconate elixir, 1,8 Slow-K over 4 billion tablets dispensed.* proved far more palatable—as well as more convenient and more acceptable -- to the great majority

The chloride anion

Slow-K provides the chloride anion which, combined with K', is essential for restoring normal acidbase and potassium balance in patients with hypokalemic alkalosis.⁶

Slow-K maintained normal serum K levels as effectively as liquid KCl preparations^{2,3} and as a potassium gluconate elixir,⁵ according to open-label crossover studies.^{3,3,5}

And Slow-K has over 10 years' worldwide clinical experience, with

perforation.

DOSAGE AND ADMINISTRATION
Usual distary intake of potassium by the average
adult is 40 to 80 mEq per day. Potassium depidtion sufficient to cause hypokalemia usually
requires loss of 200 or more meq of potassium
from the total body store.
Dosage must be adjusted to the individual needs
of each patient but is typically in the range of
20 mEq per day for prevention of hypokalemia to
40-100 mEq per day or more for treatment of
potassium depietion.
HOW SUPPLIED
Table (s pals orange, sugar-coated), each containing 600 mg (8 mEq) potassium chioride;
bottles of 100 and 1000.